

# Introduction

## Purpose of document

This is a Requirements Specification document for a new web-based reporting tool for Caliber Public Safety. Caliber equips agencies with technology products to be used in the pursuit of protecting their communities. The new system will replace the current websites to provide community members and administrative users easy browsing of default data visualizations, as well as allowing admin users to create customized data visualizations to share with community members. This document describes the scope, objectives, and goal of the new system.

## Background

Caliber Public Safety seeks a tool that can be used by first responders to report out data to their communities, allowing transparency through the availability of metrics relevant to - and understandable by - everyday people, regardless of technical prowess. Administrative users should also find the tool intuitive to use, regardless of technical knowledge.

## Project Scope

The scope of this project is a web-based system that supports the creation, publication, and viewing of reports regarding first-responder data, viewable by both individuals internal to such agencies, as well as the community members they serve. There should also be password-protected administrative access, allowing agencies to create customized reports.

# System Purpose/Description

## Users

Those who will primarily benefit from the new system and those who will be affected by the new system include:

### Community Members:

Upon implementation of the new system, community members will be able to easily navigate to the reports created using data from their community, by the first responders that serve them.

### Agency Administrators:

The new system will provide administrators log in with credentials, granting them the ability to create and publish customized reports.

## Location

The system will be available to any potential community member using the Internet. At the time of writing this document, the goal is to provide links to the site on the webpages of client agencies.

## Responsibilities

The primary responsibilities of the new system:

- Provide community-members with up-to-date, accurate reports on which they can stay informed on first-responder data in their community
- Allow differential access to web pages based on type of user
- Allow administrative users to create and publish customized reports using data from their community

Other desired features of the new system:

- A consistent, clean “look” and “feel” throughout the site
- Password protection scheme for administrative access

## Functional Requirements

The functional requirements of the new system include but are not limited to:

- Allow community members to view reports without any log-in credentials
- Allow administrative users to create/edit/publish/delete reports only after logging in with valid credentials
- There will be no unintended identification information available to community members

## Non-functional Requirements

The non-functional requirements of the new system include but are not limited to:

- The path to access reports should be very intuitive and simple
- The path to create, edit, publish, and delete reports should very straightforward
- Allow administrative users to use a wide breadth of PowerBI functionality without knowing exactly how PowerBI accomplishes the necessary tasks

## Data

The data handled and displayed by the system will encompass statistics regarding the work done by first responders and emergency services (i.e. crime data). No personal/confidential information is to be shared in order to disallow unintended identification.

# Use Cases

### Login as a community member

<b>Use Case Name:</b>	Community member login
<b>Summary:</b>	This use case allows any Internet user to login as a community member.
<b>Basic Flow:</b>	1. Click on the button to login as a community member.
<b>Preconditions:</b>	User is on the site's homepage.

<b>Postconditions:</b>	User is on the home dashboard page with community member privileges.
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#### View reports as a community member

<b>Use Case Name:</b>	Community member view reports
<b>Summary:</b>	This use case allows a community member to view data reports on a community of choice.
<b>Basic Flow:</b>	<ol style="list-style-type: none"> <li>1. Click on the desired community.</li> <li>2. Filter available reports as desired.</li> <li>3. Click on the desired report.</li> </ol>
<b>Preconditions:</b>	User has logged in as a community member, and is on the home dashboard page.
<b>Postconditions:</b>	User is viewing the chosen report.

#### Login as an administrative user

<b>Use Case Name:</b>	Administrative user login
<b>Summary:</b>	This use case allows agency administrators to login as an administrative user.
<b>Basic Flow:</b>	<ol style="list-style-type: none"> <li>1. Click on the button to login as an administrative user.</li> </ol>
<b>Preconditions:</b>	User is on the site's homepage.
<b>Postconditions:</b>	User is on the home dashboard page with administrative user privileges.

#### Create a report as an administrative user

<b>Use Case Name:</b>	Administrative user create report
<b>Summary:</b>	This use case allows an administrative user to create a report using data from their community.
<b>Basic Flow:</b>	<ol style="list-style-type: none"> <li>1. Click on the button to create a report.</li> <li>2. Use the provided functionality to</li> </ol>

	customize the report with the desired data and visualizations.
<b>Preconditions:</b>	User has logged in as an administrative user, and is on the home dashboard page.
<b>Postconditions:</b>	User is in the process of creating/editing a report.

#### **Publish a report as an administrative user**

<b>Use Case Name:</b>	Administrative user publish report
<b>Summary:</b>	This use case allows an administrative user to publish a report that is being created.
<b>Basic Flow:</b>	<ol style="list-style-type: none"> <li>1. Click on the button to publish the report that is currently being created/edited.</li> <li>2. Click on the button confirming intent to publish the current report to the community.</li> </ol>
<b>Preconditions:</b>	User is in the process of creating/editing a report.
<b>Postconditions:</b>	User has published the report, making it viewable by community members.

#### **Edit a report as an administrative user**

<b>Use Case Name:</b>	Administrative user edit report
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<b>Summary:</b>	This use case allows an administrative user to edit a pre-existing report.
<b>Basic Flow:</b>	<ol style="list-style-type: none"> <li>1. Filter available reports as desired.</li> <li>2. Click on the desired report.</li> <li>3. Click on the button to edit the report.</li> <li>4. Confirm identity by inputting login credentials.</li> <li>5. User is presented with the same interface as report creation, but with an existing report instead of a blank slate.</li> </ol>
<b>Preconditions:</b>	User has logged in as an administrative user, and is on the home dashboard page.
<b>Postconditions:</b>	User is in the process of creating/editing a report.

#### Delete a report as an administrative user

<b>Use Case Name:</b>	Administrative user delete report
<b>Summary:</b>	This use case allows an administrative user to delete a pre-existing report.
<b>Basic Flow:</b>	<ol style="list-style-type: none"> <li>1. Filter available reports as desired.</li> <li>2. Click on the desired report.</li> <li>3. Click on the button to delete the report.</li> <li>4. Confirm identity by inputting login credentials.</li> </ol>
<b>Preconditions:</b>	User has logged in as an administrative user, and is on the home dashboard page.
<b>Postconditions:</b>	The desired report no longer exists.